BRUHAT BANGALORE MAHANAGARA PALIKE

WARD NO.07, BYATARAYANAPURA

Name of work: Improvements to roads of sahakaranagara A block and E block (Except roads executed by PWD & Road Infrastructure department) in ward no.07, Byatarayanapura.

P-code:-

Est cost:49.00 lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

Project: Improvements to Roads of Sahakaranagara A Block and E Block (Except Roads Executed by PWD & Road Infrastructure Department) in Ward No 07 Byatarayanapura

							Construction Cost:		4950000.00
Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.133, I.No.19.1 of PW, P&IWTD SR 2016-17)								
	Desilt	Cum							
	Sahakaranagar E Block								
	6th Cross(13th Main)		1	35.00	0.50	0.45	7.88		
	7th Cross(13th Main)		2	85.00	0.50	0.45	38.25		
	8th Cross(13th Main)		2	110.00	0.50	0.45	49.50		
	9th Cross(13th Main)		2	95.00	0.50	0.50	47.50		
	9th A Cross(13th Main)		2	110.00	0.50	0.50	55.00		
	9th B Cross(13th Main)		2	135.00	0.50	0.50	67.50		
	10th Cross(13th Main)		2	40.00	0.50	0.50	20.00		
	11th Cross(13th Main)		2	60.00	0.50	0.50	30.00		
	6th Cross(14th Main)		2	50.00	0.50	0.50	25.00		
	7th Cross(14th Main)		2	40.00	0.50	0.50	20.00		
	8th Cross(14th Main)		2	20.00	0.50	0.50	10.00		
	9th Cross(14th Main)		2	45.00	0.50	0.50	22.50		
	Road 1		2	50.00	0.50	0.50	25.00		
	Road 2		2	70.00	0.50	0.50	35.00		
	Sahakaranagar A Block								
	17th Cross(14th Main)		2	105.00	0.50	0.50	52.50		
	15th Main (17th Cross)		2	92.00	0.50	0.50	46.00		
	8th Cross		2	140.00	0.50	0.50	70.00		
	16th Cross		2	180.00	0.50	0.50	90.00		
	19th Main		2	150.00	0.50	0.50	75.00		
	18th Main		2	150.00	0.50	0.50	75.00		
	over burden earth		1	150.00	1.00	1.00	150.00		
							1011.63	186.92	189093.88
	Basic rate	**82.00**							
	Loading and unloading with 10km lead= 68+2.5x1.28x10 = 100	**100.00**							
	Area Weightage 6%	**4.92**							
	Final Rate	**186.92**							
2	Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)								
	BS Slab Drain	Sqm							
	Sahakaranagar E Block								
	6th Cross(13th Main)		1	35	1.35	--	47.25		
	7th Cross(13th Main)		2	85	1.35	--	229.50		
	8th Cross(13th Main)		2	110	1.35	--	297.00		
	9th Cross(13th Main)		2	95	1.35	--	256.50		
	9th A Cross(13th Main)		2	110	1.35	--	297.00		
	9th B Cross(13th Main)		2	135	1.35	--	364.50		
	10th Cross(13th Main)		2	40	1.35	--	108.00		
	11th Cross(13th Main)		2	60	1.35	--	162.00		

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
	6th Cross(14th Main)		2	50	1.35	--	135.00		
	7th Cross(14th Main)		2	40	1.35	--	108.00		
	8th Cross(14th Main)		2	20	1.35	--	54.00		
	9th Cross(14th Main)		2	45	1.35	--	121.50		
	Road 1		2	50	1.35	--	135.00		
	Road 2		2	70	1.35	--	189.00		
	Sahakaranagar A Block								
	17th Cross(14th Main)		2	105	1.35	--	283.50		
	15th Main (17th Cross)		2	92	1.35	--	248.40		
	8th Cross		2	140	1.35	--	378.00		
	16th Cross		2	180	1.35	--	486.00		
	19th Main		2	150	1.35	--	405.00		
	18th Main		2	150	1.35	--	405.00		
	Consider 40% total length						1884.06		
	Consider 25% Missing slabs and damaged slabs						-471.02		
	cover		1	850.00	1.20		1020.00		
	Consider 30% Missing slabs and damaged slabs						-306.00		
							2127.05	80.56	171354.75
	Basic rate	**76**							
	Area Weightage 6%	**4.56**							
	Final Rate	**80.56**							
3	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2016-17)								
		Sqm							
	Consider 25% Missing slabs and damaged slabs						777.02		
							777.02	665.68	517243.35
	Basic rate	**628**							
	Area Weightage 6%	**37.68**							
	Final Rate	**665.68**							
4	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.142, I.No.19.14 of PW,P&IWTD S.R 2016-17)								
	Bad Reaches	Cum							
			20	2.00	3.00	0.15	18.00		
			25	2.00	6.00	0.15	45.00		
			30	8.00	2.50	0.15	90.00		
			25	1.50	2.50	0.15	14.06		
							167.06	148.76	24852.22
	Basic rate	**46.00**							
	Loading and unloading with 10km lead= 68+2.5x1.28x10 = 100	**100.00**							
	Area Weightage 6%	**2.76**							
	Final Rate	**148.76**							
5	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.157, I.No.20.18 of PW,P&IWTD SR 2016-17)								
	Bad Reaches	Cum							
			20	2.00	3.00	0.15	18.00		

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
			25	2.00	6.00	0.15	45.00		
			30	8.00	2.50	0.15	90.00		
			25	1.50	2.50	0.15	14.06		
							167.06	1768.08	295375.44
	Basic rate	**1668.00**							
	Area Weightage 6%	**100.08**							
	Final Rate	**1768.08**							
6	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kg\sqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.160, I.No.21.6 of PW,P&IWTD SR 2016-17)								
	Bad Reaches	Sqm							
			20	2.00	3.00	--	120.00		
			25	2.00	6.00	--	300.00		
			30	8.00	2.50	--	600.00		
			25	1.50	2.50	--	93.75		
							1113.75	27.56	30694.95
	Basic rate	**26.00**							
	Area Weightage 6%	**1.56**							
	Final Rate	**27.56**							
7	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.160, I.No.21.2 of PW,P&IWTD SR 2016-17)								
	Road Formation	Sqm							
	Sahakaranagar E Block								
	6th Cross(13th Main)		1	35.00	5.50	--	192.50		
	7th Cross(13th Main)		1	85.00	5.00	--	425.00		
	8th Cross(13th Main)		1	110.00	5.00	--	550.00		
	9th Cross(13th Main)		1	95.00	5.50	--	522.50		
	9th A Cross(13th Main)		1	110.00	5.50	--	605.00		
	9th B Cross(13th Main)		1	135.00	5.00	--	675.00		
	10th Cross(13th Main)		1	40.00	5.50	--	220.00		
	11th Cross(13th Main)		1	60.00	4.50	--	270.00		
	6th Cross(14th Main)		1	50.00	5.50	--	275.00		
	7th Cross(14th Main)		1	40.00	6.00	--	240.00		
	8th Cross(14th Main)		1	20.00	5.00	--	100.00		
	9th Cross(14th Main)		1	45.00	6.00	--	270.00		
	Road 1		1	50.00	4.50	--	225.00		
	Road 2		1	70.00	4.50	--	315.00		
	Sahakaranagar A Block								
	17th Cross(14th Main)		1	105.00	7.00	--	735.00		
	15th Main (17th Cross)		1	89.00	5.50	--	489.50		
	8th Cross		1	140.00	6.50	--	910.00		
	16th Cross		1	180.00	6.50	--	1170.00		
	19th Main		1	150.00	5.50	--	825.00		
	18th Main		1	150.00	7.50	--	1125.00		
							10139.50	3.18	32243.61
	Basic rate	**3.00**							
	Area Weightage 6%	**0.18**							
	Final Rate	**3.18**							

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
8	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.160 I.No.21.7 of PW,P&IWTD SR of 2016-17)								
	For Laying BC	Sqm							
	Sahakaranagar E Block								
	6th Cross(13th Main)		1.00	35.00	5.50	--	192.50		
	7th Cross(13th Main)		1.00	85.00	5.00	--	425.00		
	8th Cross(13th Main)		1.00	110.00	5.00	--	550.00		
	9th Cross(13th Main)		1.00	95.00	5.50	--	522.50		
	9th A Cross(13th Main)		1.00	110.00	5.50	--	605.00		
	9th B Cross(13th Main)		1.00	135.00	5.00	--	675.00		
	10th Cross(13th Main)		1.00	40.00	5.50	--	220.00		
	11th Cross(13th Main)		1.00	60.00	4.50	--	270.00		
	6th Cross(14th Main)		1.00	50.00	5.50	--	275.00		
	7th Cross(14th Main)		1.00	40.00	6.00	--	240.00		
	8th Cross(14th Main)		1.00	20.00	5.00	--	100.00		
	9th Cross(14th Main)		1.00	45.00	6.00	--	270.00		
	Road 1		1.00	50.00	4.50	--	225.00		
	Road 2		1.00	70.00	4.50	--	315.00		
	Sahakaranagar A Block								
	17th Cross(14th Main)		1.00	105.00	7.00	--	735.00		
	15th Main (17th Cross)		1.00	89.00	5.50	--	489.50		
	8th Cross		1.00	140.00	6.50	--	910.00		
	16th Cross		1.00	180.00	6.50	--	1170.00		
	19th Main		1.00	150.00	5.50	--	825.00		
	18th Main		1.00	150.00	7.50	--	1125.00		
							10139.50	11.66	118226.57
	Basic rate	**11.00**							
	Area Weightage 6%	**0.66**							
	Final Rate	11.66							
9	KSRRB M500-19. Providing and laying bituminous concrete 40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 6% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.164 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)								
	Road Formation	Cum							
	Sahakaranagar E Block								
	6th Cross(13th Main)		1	35.00	5.50	0.04	7.70		
	7th Cross(13th Main)		1	85.00	5.00	0.04	17.00		
	8th Cross(13th Main)		1	110.00	5.00	0.04	22.00		
	9th Cross(13th Main)		1	95.00	5.50	0.04	20.90		
	9th A Cross(13th Main)		1	110.00	5.50	0.04	24.20		
	9th B Cross(13th Main)		1	135.00	5.00	0.04	27.00		
	10th Cross(13th Main)		1	40.00	5.50	0.04	8.80		
	11th Cross(13th Main)		1	60.00	4.50	0.04	10.80		
	6th Cross(14th Main)		1	50.00	5.50	0.04	11.00		
	7th Cross(14th Main)		1	40.00	6.00	0.04	9.60		
	8th Cross(14th Main)		1	20.00	5.00	0.04	4.00		
	9th Cross(14th Main)		1	45.00	6.00	0.04	10.80		
	Road 1		1	50.00	4.50	0.04	9.00		
	Road 2		1	70.00	4.50	0.04	12.60		
	Sahakaranagar A Block								
	17th Cross(14th Main)		1	105.00	7.00	0.04	29.40		

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
	15th Main (17th Cross)		1	89.00	5.50	0.04	19.58		
	8th Cross		1	140.00	6.50	0.04	36.40		
	16th Cross		1	180.00	6.50	0.04	46.80		
	19th Main		1	150.00	5.50	0.04	33.00		
	18th Main		1	150.00	7.50	0.04	45.00		
							405.58	7083.98	2873120.61
	Basic rate	**6683.00**							
	Area Weightage 6%	**400.98**							
	Final Rate	**7083.98**							
10	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.197, I.No.24.15 of PW,P&IWTD SR 2016-17)								
	Edge line								
			2	1759.00	0.10	--	351.80		
			293		0.10		29.32		
							381.12	542.72	206839.64
	Basic rate	**512.00**							
	Area Weightage 6%	**30.72**							
	Final Rate	**542.72**							
							Total Construction Cost		4459045.01
11							**KRIDL Charges @ 10%**		445904.50
12							**Labour Cess @ 1%**		44590.45
13							**Sub Total**		4949539.96
14							**Miscellaneous and rounding off**		460.04
							Total		4950000.00

Certificate.

1 The workspot was inspected and work is found to be necessary.
2 The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.
4 The provisions made in the estimate are necessary and essential.

Assistant Engineer

Assistant Executive Engineer

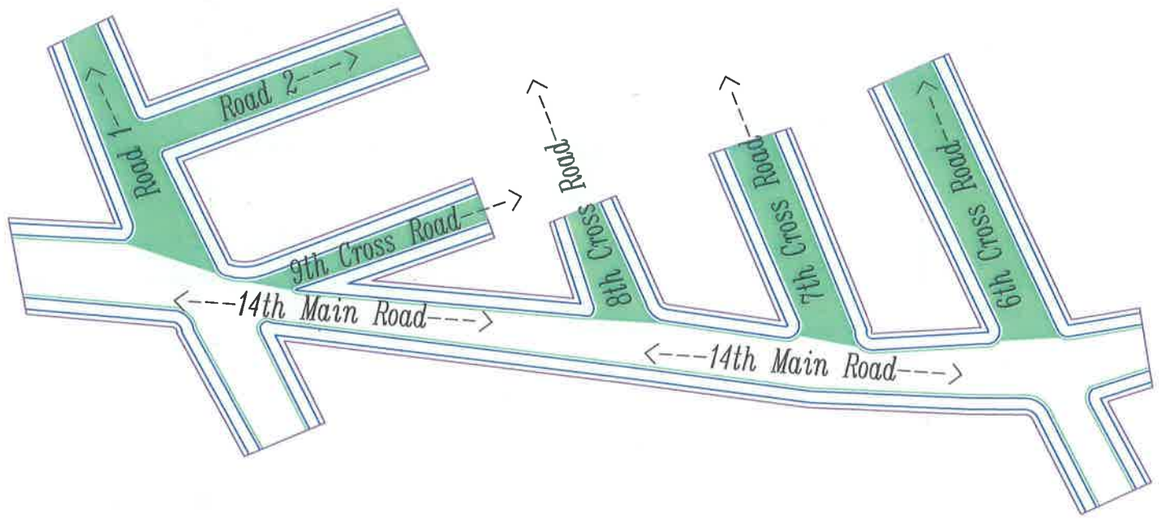
Executive Engineer 23/12

ADMINISTRATIVE APPROVAL
Accorded For Rs. Forty Nine lakhs fifty thousand only P-3333
Head of A/c.....
DIV. Fin. No. 142/17-18 Date. 23/12/17.
23/12
AE
EE(BTP) 23/12

Technical Sanction
Accorded 49.50 lakhs.
Head of A/c P3333
CER NO : 526 Dt.. 12 01 18
TA
CE (YNK)

BRUHAT BANGALORE MAHANAGARA PALIKE

Improvements to Roads of Sahakaranagara A Block and E Block (Except Roads Executed by PWD & Road Infrastructure Department) in Ward No 07 Byatarayanapura



Road Name	Length
6th Cross	49m
7th Cross	37m
8th Cross	18m
9th Cross	45m
Road 1	48m
Road 2	66m

SAHAKARANAGAR E BLOCK

NOTE:-

1. ALL DIMENSION & LEVELS ARE Mts. UNLESS OTHERWISE MENTIONED

DATE	No. OF PRINTS	PRINTS ISSUED TO	SIGN

DATE	REVISION	DESCRIPTIONS	SIGN

LEGEND:-

Road

Kerb

Culvert

AE(W27)

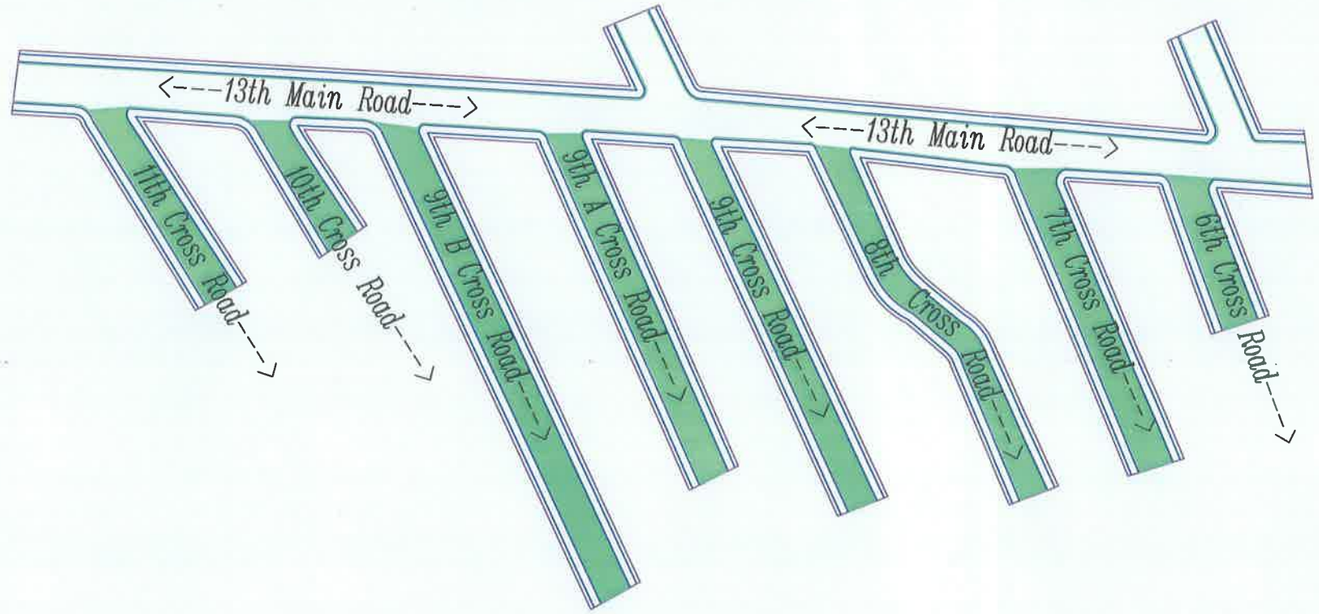
Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike

TITLE: STRIP PLAN

1/1

BRUHAT BANGALORE MAHANAGARA PALIKE

Improvements to Roads of Sahakaranagara A Block and E Block (Except Roads Executed by PWD & Road Infrastructure Department)
in Ward No 07 Byatarayanapura



Road Name	Length
6th Cross	35m
7th Cross	83m
8th Cross	110m
9th Cross	93m
9th A Cross	110m
9th B Cross	132m
10th Cross	36m
11th Cross	58m

NOTE:-

1. ALL DIMENSION & LEVELS ARE Mts. UNLESS OTHERWISE MENTIONED.

DATE	No. OF PRINTS	PRINTS ISSUED TO	SIGN

DATE	REVISION	DESCRIPTIONS	SIGN

LEGEND:-

Road

Drain

Culverts

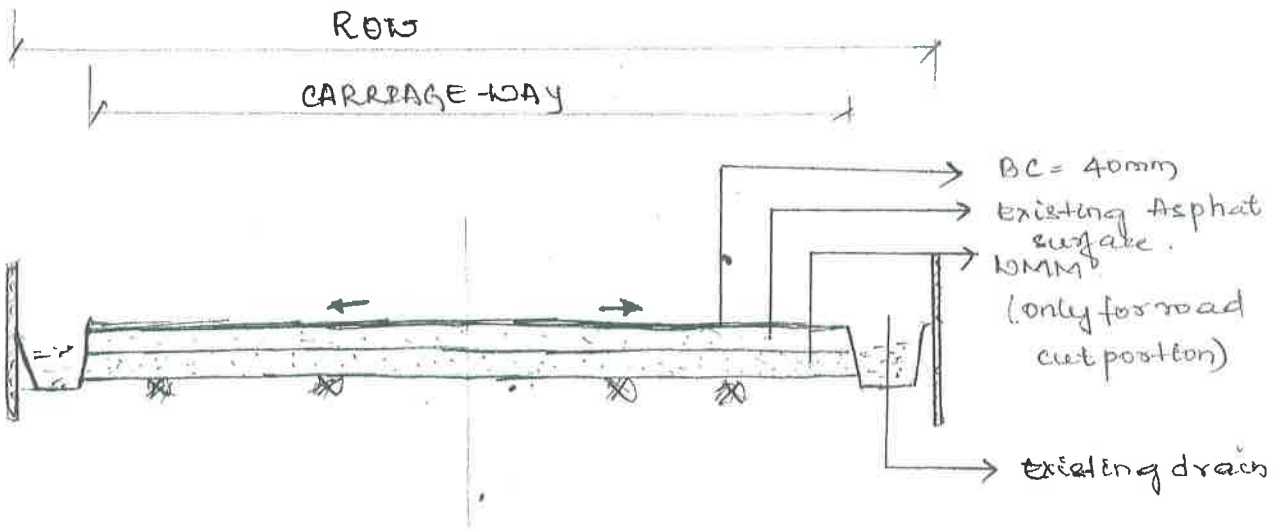
A.E(NZ)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

TITLE: STRIP PLAN

1/1

Improvements to roads of Sahakarnagar A block & E block (Except roads Executed by PWD & Road Infra Dept) in Ward no. 07



CROSS - SECTION